

I. AMENDMENTS TO THE SPECIFICATION:

Please amend the specification of the above-captioned application as follows.

1. Kindly replace the paragraph on page 9, line 25, to page 10, line 4, which begins with “Because the eyeball 1...,” with the following new paragraph:

Because the eyeball 1 has a refractive index n , which is substantially constant, when the size L of the eyeball 1 (length from the surface of ~~cornea~~retina to the eyeground) is known, the equation (2) is valid, where b in equation (1) is replaced with b' modified from b by the size L of eyeball 1 and the refractive index n .

2. Kindly replace the paragraph on page 10, lines 10-16, which begins with “In the above,...,” with the following new paragraph:

In the above, the subject is eyeground 2, which is normally a sphere. The image 4 on the CCD lies on a plane. If the patient is very near or far sighted, the eyeball 1 deforms from being a perfect sphere, but the size L of eyeball 1 (length from the surface of the ~~cornea~~retina to the eyeground) and the shape R of eyeground 2 (radius of curvature at the eyeground) can be measured using a measuring device 12.

3. Kindly replace the paragraph on page 11, lines 8-11, which begins with “In the shape...,” with the following new paragraph:

In the shape measuring step (A), the measuring device 12 measures the size L of eyeball 1 (length from the surface of cornearetina to the eyeground) and the shape R of eyeground 2 (radius of curvature at the eyeground).

4. Kindly replace the paragraph on page 11, lines 12-18, which begins with “The size L...,” with the following new paragraph:

The size L of eyeball 1 at least includes the length from the surface of the cornearetina to the eyeground. The shape R of eyeground 2 also covers at least the radius of curvature at the eyeground. The measuring device 12 is, for example, an ultrasonic sensor that scans at least 3 points per image of an eyeground, or irradiates ultrasonic beams to precisely scan the sizes and shapes of the eyeball 1 as a whole and the eyeground 2.

5. Kindly replace the paragraph on page 13, lines 15-21, which begins with “According to the...,” with the following new paragraph.

According to the aforementioned methods of the present invention, in the shape measuring step (A), the measuring device 12 measures the size L of eyeball 1 (length from the surface of the cornearetina to the eyeground) and the shape R of eyeground 2 (radius of curvature at the eyeground), so even if the eyeball is deformed from a precision sphere, a precise eyeball template 3 can be set in the eyeball setting step (B).